

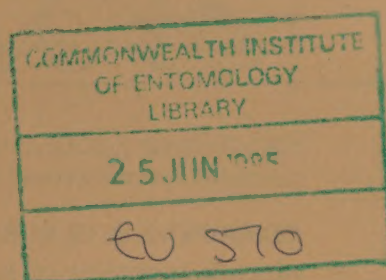


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Field crop abstracts





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FIELD CROP ABSTRACTS

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FIELD CROP

ABSTRACTS

Volume 37



**Commonwealth Bureau of Pastures
and Field Crops, Hurley**

1984

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The Commonwealth Bureau of Pastures and Field Crops is located at the Grassland Research Institute, Hurley, and is one of a group of 10 Bureaux and 4 Institutes which together form the Commonwealth Agricultural Bureaux, an organization financed and administered jointly by the various Commonwealth Governments and Dependent Territories. The Commonwealth Agricultural Bureaux produce over 150 000 records annually. These are published in 27 main and 17 specialist abstract journals and are also available in tape form and through various on-line hosts. The journals are listed on the back cover.

The Commonwealth Bureau of Pastures and Field Crops prepares records for three monthly main journals, *Herbage Abstracts*, *Field Crop Abstracts* and *Weed Abstracts*. These journals cover world scientific literature on annual field crops, pastures, herbage crops and rangelands, weeds, weed control and herbicides and provide a comprehensive guide to current scientific developments and a key to literature published in the past. The Bureau also publishes review articles on selected subjects in *Herbage Abstracts* and *Field Crop Abstracts*.

Scope of Field Crop Abstracts: The subjects covered include the agronomy and major aspects of the biology of all annual field crops grown for food, fodder, oil and fibre, and of tobacco. Land use, farming systems, agricultural meteorology and the control of weeds, pests and diseases are dealt with only in so far as they concern the crop coverage.

The Bureau is prepared, on request, to undertake literature searches and to compile bibliographies on subjects within its scope.

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The address given at the end of abstract citations is that of the first author and normally denotes the address at which the work was carried out.

Transliteration of Cyrillic script is based on the International Standard ISO/R9 1968 (E).

The titles of periodicals and reports conform where possible to those given in the *World List of Scientific Periodicals* (4th Edn; London: Butterworth) and are listed in *Field Crop Abstracts* Vol. 36, No. 2, on pp. 123-132. They can also be obtained as a separate from the Bureau of Pastures and Field Crops, Hurley, Maidenhead SL6 5LR, price £1.00.

LANGUAGE SYMBOLS

The language symbols used are listed below. An initial capital letter denotes the main language of a paper, a small letter the language of the summary (ies)

Af	Afrikaans	Eo	Esperanto	My	Malay/
Al	Albanian	Es	Spanish		Bahasamalaysia
Ar	Arabic	Fi	Finnish	Nl	Dutch, Flemish
Az	Azerbaijan(i)/Azerbaijani/	Fr	French	No	Norwegian
	Azerbaijani	Gr	Greek	Pe	Persian
Be	Belorussian	Hu	Hungarian	Pt	Portuguese
Bg	Bulgarian	Ia	Interlingua	Ro	Romanian
Ch	Chinese	In	Indonesian	Ru	Russian
Cr	Croat	It	Italian	Sk	Slovak
Cs	Czech	Ja	Japanese	Sn	Slovene
Da	Danish	La	Latin	Sr	Serbian
De	German	Li	Lithuanian	Sv	Swedish
Ee	Estonian	Lv	Latvian	Ta	Tajik/Tadzhik
En	English	Ma	Macedonian	Tr	Turkish
				Uk	Ukrainian

ABBREVIATIONS

The abbreviations used for the names of common units, mathematical operations, chemical elements, etc., are in accordance with British Standard 1991 : 1967. Additional abbreviations used follow the CAB Standard List of Abbreviations, which is published in the Annual Index; a copy may be obtained from the Bureau, price £0.15. In addition, the following are used:

FCA

Field Crop Abstracts HbA Herbage Abstracts

WA

Weed Abstracts

FIELD CROP ABSTRACTS VOLUME 37, 1984

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CEREALS

Wheat	1	81	237	305	387	549	637	743	793	843	941
Oats	—	99	243	313	405	557	647	750	799	855	951
Rye	14	102	243	315	406	558	648	751	800	856	952
Triticale	14	103	244	316	408	558	649	751	800	857	952
Barley	15	103	244	316	408	559	649	751	800	857	953
<i>Zizania aquatica</i>	—	—	—	—	—	—	—	—	—	—	—
Maize	18	111	247	321	414	561	654	754	802	863	957
Sweetcorn	—	125	—	327	431	567	664	758	805	870	—
Rice	24	126	252	327	432	567	664	758	805	870	—
Sorghum	30	137	259	334	446	577	671	761	811	879	977
<i>Pennisetum americanum</i>	30	140	259	336	450	578	673	762	811	883	979
<i>Panicum miliaceum</i>	—	141	260	336	451	579	673	762	812	883	—
<i>Panicum miliare</i>	—	—	—	—	—	—	—	—	—	883	—
<i>Eleusine coracana</i>	30	141	260	336	451	579	673	762	812	883	980
Minor cereals	30	141	—	336	—	—	—	—	—	—	980
Cereals, general	31	141	260	336	451	579	673	762	812	884	981

LEGUMES

Soyabeans	32	145	261	339	455	581	676	763	813	886	982
Groundnuts	35	159	264	344	469	587	683	768	816	893	988
Peas	36	162	265	346	471	589	683	769	817	895	990
<i>Vicia</i> spp.	41	169	267	348	476	592	686	770	819	898	995
<i>Phaseolus</i> spp.	42	171	268	349	480	593	687	771	821	900	995
<i>Vigna</i> spp.	45	177	270	351	494	594	691	772	822	903	998
<i>Vigna subterranea</i>	47	—	272	—	—	—	—	—	—	—	—
<i>Cajanus cajan</i>	47	181	272	353	497	596	693	773	824	905	1001
<i>Cicer arietinum</i>	48	182	273	354	498	596	693	774	824	905	1001
<i>Lens culinaris</i>	49	182	273	354	499	597	693	774	824	906	1001
<i>Lupinus</i> spp.	49	182	274	355	499	597	694	775	824	907	1001
Minor legumes	50	183	274	355	—	—	694	—	824	—	1002
Legumes, general	51	184	—	356	502	597	694	775	825	907	1002

ROOT CROPS

Sugarbeet	51	185	274	357	503	597	695	776	825	907	1003
Fodder beet	53	189	—	358	505	—	696	—	828	910	1005
Turnips and swedes	53	189	—	—	505	601	—	—	—	910	—
Potatoes	53	190	277	359	505	601	696	776	828	910	1005
Carrots	—	—	—	—	—	—	—	—	—	—	1011
Sweet potatoes	56	196	281	362	511	605	699	779	830	914	1011
Cassava	59	197	282	363	511	606	699	779	830	914	1012
<i>Dioscorea</i> spp.	59	199	283	—	513	606	—	—	—	915	1013
<i>Colocasia esculenta</i>	60	200	283	363	513	606	—	—	830	915	1013
Minor root crops	—	—	283	—	—	—	—	—	—	—	—
Root crops, general	—	201	283	363	513	—	699	—	—	916	—

FIBRE PLANTS

Cotton	60	202	283	364	513	606	699	779	830	916	1013
Fibre flax	64	208	285	366	519	609	702	—	831	921	1018
<i>Cannabis sativa</i>	64	208	285	—	—	609	—	—	831	—	—
Jute	64	208	—	367	519	609	702	781	831	—	1018
Minor fibre plants	64	209	—	367	—	—	—	—	—	—	—
Fibre plants, general	—	209	—	367	—	—	—	—	—	—	1019

OIL PLANTS

<i>Ricinus communis</i>	...	...	...	65	209	286	368	519	610	703	782	832	921	1019
Sesame	...	...	...	—	210	—	368	520	610	703	782	—	922	1020
Oilseed flax	...	...	...	—	210	—	368	520	—	—	—	—	922	—
Safflower	...	...	...	—	210	—	368	520	—	703	—	832	922	1020
Sunflower	...	...	...	65	210	286	369	521	610	703	782	832	922	1020
Rape	...	...	...	67	212	286	369	523	611	704	783	834	925	1022
Minor oil plants	...	...	...	67	212	293	372	—	—	705	—	—	—	1022
Oil plants, general	...	...	...	68	214	295	373	526	—	705	784	835	—	1023

MISCELLANEOUS CROPS

Tobacco	...	...	...	...	...	68	214	295	373	527	612	706	784	835	927	1023
<i>Brassica oleracea</i>	...	...	...	...	...	—	—	—	—	—	—	—	—	—	930	1026
Fodder radish	...	...	...	...	...	—	—	—	—	—	—	—	—	—	—	—
Buckwheat	...	...	...	...	...	—	219	—	375	529	—	707	—	836	—	1026
Other crops	...	...	...	...	...	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous crops, general	...	...	...	...	...	—	—	—	—	—	—	—	786	—	—	—

GREEN MANURES...	...	...	...	69	-	-	-	529	-	-	-	103575
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FIELD CROPS, GENERAL	...	...	70	219	297	375	529	614	708	786	836	930	1027
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CROP BOTANY

Physiology	...	...	...	...	...	71	221	298	377	531	615	709	787	837	932	1028
Chemical composition	...	...	...	...	...	—	—	—	379	—	617	712	—	838	935	1029
Morphology and anatomy	...	...	...	...	...	—	—	—	—	535	617	712	—	838	—	—
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WEEDS	...	...	...	...	...	...	75	220	301	-	538	-	715	788	-	937	1031
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ARMING SYSTEMS	...	...	...	75	230	301	381	539	620	715	789	839	937	1031
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MISCELLANEOUS	77	232	302	-	543	621	-	790	-	939	-
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CAB STANDARD LIST OF ABBREVIATIONS

AAS	atomic absorption spectrometry	FDA	Food and Drug Administration	NW	north-west
ABA	abscisic acid	Feb.	February	obs.	observed
a.c.	alternating current	FGA	flurogestone acetate	Oct.	October
ACTH	adrenocorticotrophic hormone	FMN	flavin mononucleotide	OM	organic matter
ad lib.	ad libitum	f.p.	freezing point	opt.	optimum
ADP	adenosine diphosphate	FSH	follicle stimulating hormone	P	parental generation
a.e.	acid equivalent	FSHRH	FSH-releasing hormone	P	probability
a.i.	active ingredient	f.sp.	<i>forma specialis</i>	p.a.	<i>per annum</i>
AI	artificial insemination	FU	food unit/fodder unit	PG	prostaglandin
alt.	altitude	FYM	farmyard manure	pH	hydrogen-ion concentration
a.m.	<i>ante meridiem</i>	g.b.h.	girth at breast height	p.m.	<i>post meridiem</i>
approx.	approximately	gen.	genus	PMB	pregnant mare blood
aq.	aqueous	GLC	gas-liquid chromatography	PMS	pregnant mare serum
ATP	adenosine triphosphate	GnRH	gonadotropin-releasing hormone	PMSC	pregnant mare serum gonadotropin
Aug.	August	Gram+	Gram positive	PMU	pregnant mare urine
av.	average	Gram-	Gram negative	post-em.	post-emergence
BOD	biochemical oxygen demand	h^2	heritability	p.p.h.m.	parts per hundred million
b.p.	boiling point	IIb	haemoglobin	p.p.m.	parts per million
c.	circa	HCG	human chorionic gonadotropin	ppt.	precipitate
CA	controlled atmosphere	ht.	height	pre-em.	pre-emergence
cAMP	cyclic adenosine monophosphate	ICSH	interstitial cell stimulating hormone	PVC	polyvinyl chloride
CEC	cation exchange capacity	i.e.	that is	q.v.	which see
cf.	compare	IR	infrared	RBV	relative breeding value
CF	crude fibre	IU	international unit	resp.	respectively
CGR	crop growth rate	IVT	Illini variable temperature	RGR	relative growth rate
CNS	central nervous system	Jan.	January	RH	relative humidity
COD	chemical oxygen demand	LAI	leaf-area index	RNA	ribonucleic acid
coeff.	coefficient	LAR	leaf-area ratio	RU	rat unit
col.	coloured	lat.	latitude	S.	south
conc.	concentrated	LC	lethal concentration	SAR	sodium absorption ratio
const.	constant	LD	lethal dose	s.d.	standard deviation
CP	crude protein	LH	luteinizing hormone	SE	south-east
CR	conception rate	LHRF	LH-releasing factor	s.e.	standard error
cryst.	crystalline	LHRH	LH-releasing hormone	Sept.	September
CSIRO	Commonwealth Scientific and Industrial Research Organization [Australia]	loc.cit.	place cited	SNF	solids not fat
cv.	cultivar	long.	longitude	sol.	solution
CV	coefficient of variation	M[small cap]	molar	sp.	species
d.b.h.	diameter at breast height	MA	megestrol acetate	sp.gr.	specific gravity
d.c.	direct current	m.a.i.	mean annual increment	SSP	soluble sodium percentage
DCP	digestible crude protein	MAP	6- α -methyl-17 α -acetoxy-progesterone	s.t.p.	standard temperature and pressure
DDM	digestible dry matter	max.	maximum	str.	strain
DE	digestible energy	m.c.	moisture content	SW	south-west
Dec.	December	ME	metabolizable energy	syn.	synonym
DHIA	Dairyherd Improvement Association	MGA	melengestrol acetate	TDN	total digestible nutrients
DM	dry matter	min.	minimum	temp.	temperature
diam.	diameter	mol.	molecular	TG	thermogravimetry
dil.	dilute	m.p.	melting point	TLC	thin-layer chromatography
DMSO	dimethyl sulphoxide	MS	mass spectrometry	TMV	tobacco mosaic virus
DNA	deoxyribonucleic acid	MU	mouse unit	UHT	ultra-high temperature
DOCA	desoxycorticosterone acetate	N.	north	USDA	United States Department of Agriculture
DOM	digestible organic matter	N[small cap]	normal [concentration]	UV	ultraviolet
DTA	differential thermal analysis	NAD+	nicotinamide adenine dinucleotide (oxidized form)	var.	variety
E.	east	NADH	nicotinamide adenine dinucleotide (reduced form)	VFA	volatile fatty acids
ED	effective dose	NADP+	nicotinamide adenine dinucleotide phosphate (oxidized form)	viz.	namely
EDTA	ethylenediaminetetracetic acid	NADPH	nicotinamide adenine dinucleotide phosphate (reduced form)	vol.	volume
EEC	European Economic Community			v.p.m.	volume per million
e.g.	for example			vs.	versus
Eh	oxidation-reduced potential			v/v	volume/volume
ESP	exchangeable sodium percentage			W.	west
et al.	et alii			WHO	World Health Organization
f.	<i>forma</i>			wk	week
F	filial generation	NAR	net assimilation rate	w.p.	wettable powder
F	inbreeding coefficient	NE	north-east	wt.	weight
FAD	flavin adenine denucleotide	NFE	nitrogen-free extract	w/v	weight/volume
FAO	Food and Agriculture Organization	NMR	nuclear magnetic resonance	w/w	weight/weight
FCM	fat-corrected milk	Nov.	November	yr	year

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